

MP-1646

Please type a plus sign (+) inside this box → ☐

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/519,076	
	Filing Date	March 6, 2000	
	First Named Inventor	SALKOFF <i>et al.</i>	
	Group Art Unit	1646	
	Examiner Name	N. Basi	
Total Number of Pages in This Submission	1	Attorney Docket Number	018512-000130US

RECEIVED
AUG 06 2001
TECH CENTER 1600/2900

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Copies of Statement under 37 CFR §1.821(e); Communication under 37 CFR §§1.821-1.825 and Preliminary Amendment; paper copy of Sequence Listing; and Return Receipt Postcard.
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm and Individual name	Townsend and Townsend and Crew LLP Annette S. Parent Reg. No. 42,058
Signature	<i>Annette S. Parent</i>
Date	July 30, 2001

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: July 30, 2001	
Typed or printed name	Karen Iovino
Signature	<i>Karen Iovino</i> Date July 30, 2001

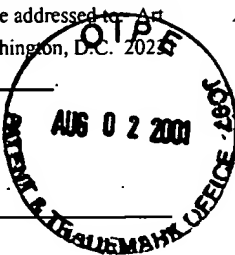
Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1252514 v1

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Art Unit 1646, Assistant Commissioner for Patents, Washington, D.C. 20231 on JULY 30, 2001

PATENT
Attorney Docket No.: 018512-000130US

TOWNSEND and TOWNSEND and CREW LLP

By: Karen Lovino
Karen Lovino



RECEIVED

AUG 06 2001

TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Salkoff *et al.*

Application No.: 09/519,076

Filed: March 6, 2000

For: A pH SENSITIVE POTASSIUM CHANNEL IN SPERMATOCYTES

Examiner: N. Basi

Art Unit: 1646

PRELIMINARY AMENDMENT AND
RESPONSE TO RESTRICTION
REQUIREMENT

6/8
8/7/01
O I P E

Art Unit 1646
Assistant Commissioner for Patents
Washington, D.C. 20231

08/07/2001 01 FC:102 160.00 CH
02 FC:103 180.00 CH

This paper is submitted in response to the Restriction Requirement dated June 29, 2001. Please amend the application as follows:

IN THE CLAIMS:

Please cancel claims 18 and 20 without prejudice to subsequent revival.

Please amend claims 17, 19, and 21, as follows.

Please add new claims 45-56, as follows.

17. (once amended) An isolated polypeptide monomer of a pH sensitive potassium channel, the monomer:

(i) having a unit conductance of approximately 80-120 pS when the monomer is in a functional tetrameric form of a potassium channel and is expressed in a *Xenopus* oocyte;

(ii) having increased activity above approximately intracellular pH of 7.1; and